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# PATENT ABSTRACTS OF JAPAN

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## (54) POLYBUTENE-1 RESIN

### (57) Abstract:

**PURPOSE:** The titled resin excellent in rigidity, creeping resistance, etc., and suitable for water supply pipes, etc. obtained by polymerizing butene-1 in the presence of a catalyst comprising a highly active solid titanium catalyst, a trialkylaluminum compound and an organosilicon compound.

**CONSTITUTION:** The purpose polybutene-1 resin is

obtained by (co)polymerizing butene-1 in the presence of a catalyst comprising (A) a highly active solid titanium catalyst component essentially consisting of Mg, Ti, a halogen, and a carboxylic acid diester, (B) a trialkylaluminum compound catalyst component (e.g., triethylaluminum) and (C) an organosilicon compound catalyst component (e.g., triethylmethoxysilane). This resin contains 0W1mol% 2W12C olefins other than butene-1 and has an intrinsic viscosity of 1.5W4dl/g, a weight-average MW/number-average MW ratio  $\leq 6$  and an isotacticity index  $\geq 95\%$ .

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